

AMENDED CLAIMS

1. Adhesive for medical patches or for transdermal therapeutic systems, said adhesive having a tackiness which is activated and/or increased by contact with moisture or by absorption of moisture, and said adhesive being characterized in that it contains a component or a combination of at least two components, said component(s) being selected from the group comprising (a) polyvinyl alcohols, (b) cellulose derivatives, (c) polyethers, (d) acid anhydrides and their acids and salts, as well as (e) non-pressure-sensitive polyacrylates, at least two components differing from each other in terms of their being members of the classes (a) to (e);

and that the adhesive possesses at least one of the features indicated in the following:

- i) it contains a film-forming polymer from the group of the polyacrylates as component (e);
- ii) it contains one or more organic acids.

2. Adhesive according to claim 1, characterized in that it contains at least one acid anhydride group-containing polymer or copolymer, preferably from the group of the acid anhydride group-containing polyethers, as acid anhydride.

3. Adhesive according to claim 1 or 2, characterized in that it contains a salt form or an acid form of at least one acid anhydride group-containing polymer or copolymer.

4. Adhesive according to any one of claims 1 to 3, characterized in that it contains one or more polymers from the class of the polyvinyl alkyl ethers, the alkyl group preferably containing 1-20 C atoms.

5. Adhesive according to claim 4, characterized in that it contains one or more polymers selected from the group comprising polyvinyl methyl ether, polyvinyl ethyl ether, polyvinyl isobutyl ether and polyvinyl cyclohexyl ether.

6. Adhesive according to any one of claims 1 to 5, characterized in that it contains one or more polymers selected from the group of the polyvinyl alkyl ether copolymers, preferably copolymers containing a carboxylic acid anhydride as comonomer, with particular preference a copolymer of methyl vinyl ether and maleic acid anhydride.

7. Adhesive according to any one of claims 1 to 6, characterized in that it contains one or more polyvinyl alcohol(s).

8. Adhesive according to any one of claims 1 to 7, characterized in that it contains polyvinyl alcohol(s) and at least one polymethyl vinyl ether-polymaleic acid anhydride copolymer, the polyvinyl alcohol portion amounting to 1-80%-wt., preferably 5-55%-wt., relative to the sum of these two polymer components.

9. Adhesive according to any one of claims 1 to 8, characterized in that it contains at least one cellulose derivative, preferably selected from the group comprising hydroxypropyl methyl cellulose, hydroxypropyl cellulose, sodium carboxymethyl cellulose, methyl cellulose, hydroxyethyl cellulose and hydroxypropyl ethyl cellulose.

10. Adhesive according to any one of claims 1 to 9, characterized in that it contains at least one component from the group comprising polyvinyl pyrrolidones, gelatine, starch and starch derivatives.

11. Adhesive according to one or more of the preceding claims, characterized in that it additionally contains one or more pressure-sensitive adhesive polymers preferably selected from the group comprising polyacrylates, polyisobutylenes, polyisoprenes, silicone adhesives and hot melt pressure-sensitive adhesives, and the portion of the moisture-activatable, non-pressure-sensitive adhesive components preferably being 40-60%-wt.

12. Adhesive according to any one of the preceding claims, characterized in that it contains at least one film-forming polymer from the group of the polyacrylates and at least one polymethyl vinyl ether-polymaleic acid anhydride copolymer, the polyacrylate portion being 25-95%-wt, preferably 50-80%-wt., relative to the sum of these polymer components.

13. Adhesive according to one or more of the preceding claims, characterized in that the organic acid(s) is/are selected from the group comprising saturated alkanolic monocarboxylic acids, saturated alkanolic dicarboxylic acids and hydroxyalkanoic acids.

14. Adhesive according to one or more of the preceding claims, characterized in that it contains a cellulose derivative, preferably sodium carboxymethyl cellulose, as well as an organic acid, preferably a carboxylic acid.

15. Medical patch or transdermal therapeutic system, characterized in that it is provided with at least one moisture-activatable adhesive matrix layer which contains an adhesive according to any one of claims 1 to 14.

16. Transdermal therapeutic system according to claim 15, characterized in that the said matrix layer contains at least one active substance.

17. Transdermal therapeutic system according to claim 16, characterized in that the said active substance-containing matrix layer is connected with an overlying patch, the overlying patch preferably being provided with a pressure-sensitive adhesive polymer layer.

18. The use of an adhesive according to any one of claims 1 to 14 for the manufacture of a medicinal patch or of a transdermal therapeutic system.